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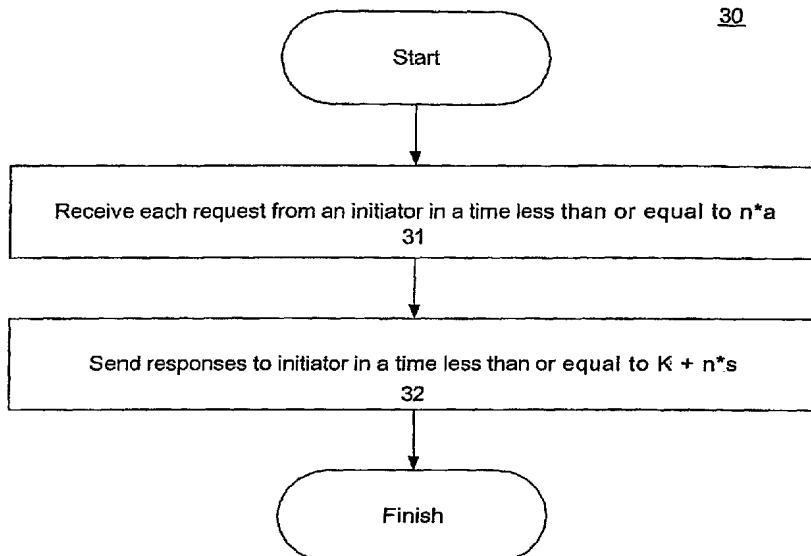
(71) Applicant (for all designated States except US): **SON-ICS, INC.** [US/US]; 2440 West LI Camino Real, Suite 620, Mountain View, CA 94040 (US). (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **WEBER, Wolf-Dietrich** [DE/US]; 5851 Meander Drive, San Jose, CA 95120 (US).

[Continued on next page]

(54) Title: SCHEDULING MEMORY ACCESS BETWEEN A PLURALITY OF PROCESSORS



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(57) Abstract: In general, methods and apparatus for implementing a Quality of Service (QoS) model are disclosed. A Quality of Service (QoS) contract with an initiating network device may be satisfied. A request may be received from the initiating network device initiator in a first time less than or equal to an ordinal number times an arrival interval. The ordinal number signifies a position of the request among a group of requests. The request that has been serviced may be returned to the initiator in a second time less than or equal to a constant term plus the ordinal number times a service interval.

**Published:**

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- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/US2004/035863

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F13/00 G06F13/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/138687 A1 (YANG LIUXI ET AL) 26 September 2002 (2002-09-26) paragraph [0006] - paragraph [0007] paragraph [0024] paragraph [0027] paragraph [0037] - paragraph [0041] figures 2,3,7a-7d -----	1-15
X	IVO ADAN, JACQUES RESING: "Queueing Theory" 14 February 2001 (2001-02-14), EINDOVEN UNIVERSITY OF TECHNOLOGY, EINDOVEN, XP002329104 page 23 - page 27 -----	1,7
A	----- -/-	2-6,8-15

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl
Fax: (+31-70) 340-3016

Authorized officer

Lastoria, G

INTERNATIONAL SEARCH REPORT

Int'l Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/074519 A1 (WEBER WOLF-DIETRICH) 17 April 2003 (2003-04-17) paragraph [0002] - paragraph [0003] paragraph [0016] - paragraph [0017] figure 1 -----	1-15
Y	LAMPORT L: "HOW TO MAKE A MULTIPROCESSOR COMPUTER THAT CORRECTLY EXECUTES MULTIPROCESS PROGRAMS" IEEE TRANSACTIONS ON COMPUTERS, IEEE INC. NEW YORK, US, vol. C-28, no. 9, September 1979 (1979-09), pages 690-691, XP009029909 ISSN: 0018-9340 the whole document -----	1-15

INTERNATIONAL SEARCH REPORT

national application No.
PCT/US2004/035863

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-15

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/ US2004/ 035863

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15

Claims 1 to 15 are directed to a method and corresponding system for satisfying a quality of service contract between an initiator and a target.

2. claims: 16-32

Claims 16 to 32 are directed to a method and corresponding system for tracking services between an initiator and a target.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US2004/035863

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 2002138687	A1	26-09-2002	WO 02056187 A2	18-07-2002
US 2003074519	A1	17-04-2003	EP 1435039 A1 JP 2005508550 T WO 03040927 A1	07-07-2004 31-03-2005 15-05-2003